

## CLAIMS

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Al 7 1. A method of processing a document object model (DOM) tree having a tag located at a given node in the tree, comprising the steps of:

5 upon encountering the tag, passing given information to a method;

having the method generate a string;

parsing the string into a new DOM tree; and

replacing the given node and any child nodes with the new DOM tree.

10 2. The method as described in Claim 1 wherein the new DOM tree has a root node positioned at the given node in the tree.

3. The method as described in Claim 1 wherein the given information is a text string.

15 4. The method as described in Claim 3 wherein the text string is a representation of XML in the DOM tree at the given node and any child nodes of the given node.

20 5. The method as described in Claim 4 wherein the string generated by the method is XML.

6. The method as described in Claim 1 wherein the given information is the given node.

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7. The method as described in Claim1 wherein the method is a translation method.

8. The method as described in Claim1 wherein the tag is is a marker that  
5 initiates invocation of a handler.

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9. A method of processing a document object model (DOM) tree having a tag located at a given node in the tree, comprising the steps of:

- 5 upon encountering the tag, generating a first string that is a representation of XML in the DOM tree at the given node and any child nodes of the given node;
- passing the first string to a method;
- having the method generate an XML string;
- parsing the XML string into a new DOM tree having a root node; and
- replacing the given node and any child nodes with the new DOM tree, wherein
- 10 the root node of the new DOM tree is positioned at the given node in the tree.

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10. A method of processing a document object model (DOM) tree having a tag located at a given node in the tree, comprising the steps of:

- 5      upon encountering the tag, passing the given node to a method;  
        having the method generate an XML string;  
        parsing the XML string into a new DOM tree having a root node; and  
        replacing the given node and any child nodes with the new DOM tree, wherein  
        the root node of the new DOM tree is positioned at the given node in the tree.

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11. A method of processing a document object model (DOM) tree having a plurality of custom tags, comprising the steps of:

- 5 (a) processing the DOM tree to locate a custom tag;  
(b) upon encountering a custom tag at a given node in the tree:  
(i) passing given information to a method;  
(ii) ..... having the method generate a string;  
(iii) parsing the string into a new DOM tree; and  
(iv) replacing the given node and any child nodes with the new  
10 DOM tree; and  
(c) repeating steps (a)-(b).

12. The method as described in Claim 11 wherein the given information is a text string.

13. The method as described in Claim 12 wherein the text string is a representation of XML in the DOM tree at the given node and any child nodes of the given node.

14. The method as described in Claim 11 wherein the given information is the given node.

15. A computer program product in a computer-readable medium for processing a document object model (DOM) tree having a tag located at a given node in the tree, comprising:

- 5 means for processing the document object model tree to locate the tag;  
means responsive to locating the tag for passing given information to a method;  
means for parsing a string returned from the method into a new DOM tree; and  
10 means for replacing the given node and any child nodes with the new DOM tree.

16. The computer program product as described in Claim 15 wherein the means for passing given information includes means for generating a text  
15 representation of XML in the DOM tree at the given node and any child nodes of the given node.

17. The computer program product as described in Claim 16 wherein the given information is the text representation.

18. The computer program product as described in Claim 15 wherein the means for passing given information passes the given node directly to the method.

19. The computer program product as described in Claim 15 wherein the string returned from the method is an XML string.

20. A computer program product in a computer-readable medium for processing a document object model (DOM) tree having a plurality of custom tags, comprising:

- 5 means for processing the DOM tree to locate a custom tag;  
means responsive to locating each custom tag at a given node in the tree for (a) passing given information to a method, (b) parsing a string returned from the method into a new DOM tree; and (c) replacing the given node and any child nodes with the  
10 new DOM tree.

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**METHOD FOR PROCESSING A DOCUMENT OBJECT MODEL (DOM)  
TREE USING A TAGBEAN**

- 5 A method of processing a document object model (DOM) tree having at least one tag located at a given node in the tree. The tag serves as a marker that initiates the invocation of a tag handler that, in turn, performs a simple macro substitution or a more complex algorithmic reorganization and manipulation of the tree. Upon encountering the tag, given information is passed to a method. In a first embodiment,
- 10 the given information is a text representation of XML in the DOM tree at the given node and any child nodes of the given node. In an alternate embodiment, the given information is the given node of the DOM tree itself. The method generates an XML string, which is then parsed into a new DOM tree having a root node. The given node and any child nodes are then replaced by the new DOM tree, with the root node of the
- 15 new DOM tree being positioned at the given node in the original DOM tree. The process may then be repeated for any additional tags.

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# DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

## METHOD FOR PROCESSING A DOCUMENT OBJECT MODEL (DOM) TREE USING A TAGBEAN

the specification of which (check one):

- ☒ is attached hereto.
- ☐ was filed on \_\_\_\_\_;  
as Application Serial No. \_\_\_\_\_  
and which was amended on \_\_\_\_\_ (if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, § 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, § 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s):

Priority Claimed

_____	_____	_____	_____ Yes	_____ No
(Number)	(Country)	(Day/Month/Year)		

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information material to the patentability of this application as defined in Title 37, Code of Federal Regulations, § 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

(Application Serial #)

(Filing Date)

(Status)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

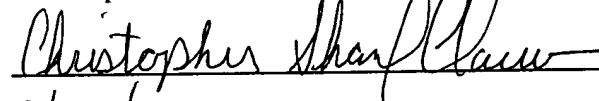
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